AN ANNOTATED LIST OF TREEHOPPERS (HOMOPTERA: MEMBRACIDAE) OF DELAWARE

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ABSTRACT: Sixty-one membracid species are reported for Delaware of which 48 are new state records. The species list includes information on their locality, seasonal occurrence and biology, including plant species association.

Thirteen species of membracids have been previously reported from Delaware (Bray and Triplehorn 1953, Metcalf and Wade 1965, Kopp and Yonke 1973b, c). Nine of these were reported by Bray and Triplehorn in association with red and pin oaks.

The present list includes 61 species, 48 of which are new state records. Records on all but one species (Ophiderma salamandra Fairmaire) in the list are based upon recent field collections (Mason and Loye 1981) and examination of specimens in museum collections. Determinations of species were verified by Duane Flynn of Michigan State University.

The arrangement of taxa in the list follows that of Kopp and Yonke (1973a, b, c, 1974). Species within each genus are listed alphabetically. Information listed for species collected in this study includes: locality and (or) county, range of seasonal occurrence, host data and biological notes where available. Gleason and Cronquist (1963) was used as a source for the host identifications. For museum specimens, information is given on locality and months when they were collected. This information was obtained from specimens in the University of Delaware Entomological Collection.

More extensive collecting is needed to determine the extent of the membracid fauna in the state. Our list represents a compilation of known Delaware species. However, about 40 other species not listed here have been reported from adjacent states and should be present in Delaware. We hope this publication will stimulate additional investigations on the Membracidae in Delaware.
Family Membracidae
Subfamily Centrotinae


Subfamily Hoplophorioninae


Subfamily Membracinae


* Eucheneopa binojata (Say). Newark and Wilmington, New Castle Co.; Dover, Kent Co. June 5 – Sep. 22. Carya glabra, Juglans nigra. Nymphs collected from J. nigra and C. glabra June 3-26 were attended by ants.

Subfamily Smiliinae

Tribe Acutalini


Tribe Ceresini


* state records
Tribe Polyglyptini


Tribe Smiliini


*C. maculifrons* (Emmons). Newark, New Castle Co. June 4-22. *Quercus nigra*.


*C. pulchellus* Woodruff. Newark, New Castle Co. June 1-10. *Quercus alba*.


* O. evelyna Woodruff. Newark, New Castle Co.; Bridgeville, Millsboro and Rehoboth Beach, Sussex Co. June 5-6. Quercus borealis. Q. marilandica. On June 6, 1979, 101 males and no females were taken in a black-light trap at Rehoboth Beach.


Xantholobus intermedius (Emmons). Newark, New Castle Co. July 5.


* X. muticus (F.). Newark, New Castle Co. May 22 – July 4. Quercus borealis. Q. velutina. A female was observed ovipositing June 19 at 1645 hr. on Q. borealis.

Tribe Telamonini


* Carynota merä (Say). Newark, New Castle Co. Aug 2-29.


* Heliria cristata (Fairmaire). Newark, New Castle Co. June 20.

* H. molaris (Butler). Newark, New Castle Co. June 12 – Oct. 1. Quercus alba. Q. bicolor. Q. velutina. Fifth instar molting nymph was collected from Q. bicolor June 1.


* T. unicolor Fitch. Newark, New Castle Co. June 6 – Aug. 17. Carpinus glabra. Two ant attended fifth instar nymphs were collected the 3rd week of May.


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LITERATURE CITED


BOOKS RECEIVED AND BRIEFLY NOTED

The following are Univ. of California Publications in Entomology, Univ. of Calif. Press, Berkeley:


(Continued on page 47)